

# Comparisons of Job Characteristics

**Focus Occupation:** [Automotive Service Technicians and Mechanics \(49-3023\)](#)

**Associated Occupation:** [Engine and Other Machine Assemblers \(51-2031\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

**Focus Occupation:** Automotive Service Technicians and Mechanics (49-3023)

**Associated Occupation:** Engine and Other Machine Assemblers (51-2031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	14.7	20.8	>> Current knowledge level is likely more than sufficient
Production and Processing	6.0	8.8	6.9	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 78

**Focus Occupation:** Automotive Service Technicians and Mechanics (49-3023)

**Associated Occupation:** Engine and Other Machine Assemblers (51-2031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	10.3	10.9	0 Current skill level may be sufficient
Quality Control Analysis	5.9	10.1	10.4	0 Current skill level may be sufficient
Repairing	3.4	8.1	12.7	>> Skill level is likely more than sufficient
Troubleshooting	4.5	8.0	11.4	>> Skill level is likely more than sufficient
Equipment Maintenance	3.5	7.9	11.6	>> Skill level is likely more than sufficient
Equipment Selection	3.3	5.5	9.4	>> Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 93

**Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)****Associated Occupation: Engine and Other Machine Assemblers (51-2031)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	11.1	12.2	0	Current ability level may be sufficient
Visualization	7.5	10.7	11.4	0	Current ability level may be sufficient
Finger Dexterity	7.6	10.6	12.6	>	Current ability level is likely sufficient
Manual Dexterity	6.5	10.3	12.4	>	Current ability level is likely sufficient
Control Precision	6.6	10.1	13.5	>>	Current ability level is likely more than sufficient
Multilimb Coordination	6.0	10.0	12.0	>	Current ability level is likely sufficient
Extent Flexibility	4.8	9.6	14.4	>>	Current ability level is likely more than sufficient
Trunk Strength	5.7	9.6	9.3	0	Current ability level may be sufficient
Reaction Time	4.8	9.1	9.0	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	8.5	11.8	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 89

**Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)****Associated Occupation: Engine and Other Machine Assemblers (51-2031)**

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Align or adjust clearances of mechanical components or parts	72
Assemble, dismantle, or reassemble equipment or machinery	70
Conduct tests to locate mechanical system malfunction	71
Diagnose mechanical problems in machinery or equipment	65
Fabricate, assemble, or disassemble manufactured products by hand	11
Identify properties of metals for repair or fabrication activities	71
Lubricate machinery, equipment, or parts	59
Maintain welding machines or equipment	70
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Operate vehicle engine electrical system test equipment	84
Perform safety inspections in industrial, manufacturing or repair setting	32
Plan or organize work	51
Read schematics	34
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair or replace malfunctioning or worn mechanical components	62
Set up and operate variety of machine tools	62

Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use combination welding procedures	68
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use knowledge of metric system	39
Use knowledge of welding filler rod types	75
Use machine tools in installation, maintenance, or repair	72
Use precision measuring devices in mechanical repair work	61
Use soldering equipment	44
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 92

**Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)**  
**Associated Occupation: Engine and Other Machine Assemblers (51-2031)**

Tools and Technologies	Exclusivity
Computers	1
Cutting tools	18
Data management and query software	1
Fastener setting tools	12
Forming tools	2
Holding and clamping tools	3
Hydraulic presses	25
Indicating and recording instruments	2
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Metal bending and forming machinery	17
Power tools	2
Prying and bending tools	10
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Special tooling fixtures	16
Vehicle servicing equipment	43
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.